



# Special Issue of Journal of Manufacturing Systems on Advanced Manufacturing Research



During the refereeing process of papers submitted to NAMRC 43 this year, eight high-quality papers have been selected and fast-tracked to a special issue of Journal of Manufacturing Systems titled “Advanced Manufacturing Research”. The eight papers published in JMS are therefore excluded from the Proceedings of NAMRC 43 in Procedia Manufacturing. Details of the fast-tracked papers and their hyperlinks to the JMS special issue are provided below for quick reference.

1. Lihui Wang, Martin Törngren and Mauro Onori, “Current Status and Advancement of Cyber-Physical Systems in Manufacturing”,  
[doi:10.1016/j.jmsy.2015.04.008](https://doi.org/10.1016/j.jmsy.2015.04.008)
2. Peng Wang and Robert Gao, “Adaptive Resampling-Based Particle Filtering for Tool Life Prediction”,  
[doi:10.1016/j.jmsy.2015.04.006](https://doi.org/10.1016/j.jmsy.2015.04.006)
3. Christopher Dimarco, John Ziegert and Christopher Vermillion, “Exponential and Sigmoid-Interpolated Machining Trajectories”,  
[doi:10.1016/j.jmsy.2015.04.007](https://doi.org/10.1016/j.jmsy.2015.04.007)
4. Josef Mayr, Michael Egeter, Sascha Weikert and Konrad Wegener, “Thermal Error Compensation of Rotary Axes and Main Spindles Using Cooling Power as Input Parameter”,  
[doi:10.1016/j.jmsy.2015.04.003](https://doi.org/10.1016/j.jmsy.2015.04.003)
5. Bala Muralikrishnan, Meghan Shilling, Prem Rachakonda, Wei Ren, Vincent Lee and Daniel Sawyer, “Towards the Development of a Documentary Standard for Derived-Point to Derived-Point Distance Performance Evaluation of Spherical Coordinate 3D Imaging Systems”,  
[doi:10.1016/j.jmsy.2015.04.002](https://doi.org/10.1016/j.jmsy.2015.04.002)

6. Jamie Loizou, Wenmeng Tian, John Robertson and Jaime Camelio, “Automated Wear Characterisation for Broaching Tools Based on Machine Vision Systems”,  
[doi:10.1016/j.jmsy.2015.04.005](https://doi.org/10.1016/j.jmsy.2015.04.005)
7. Mohammad Givchchi, Azadeh Haghighi and Lihui Wang, “Generic Machining Process Sequencing through a Revised Enriched Machining Feature Concept”,  
[doi:10.1016/j.jmsy.2015.04.004](https://doi.org/10.1016/j.jmsy.2015.04.004)
8. Jie Gu, John Agapiou and Sheri Kurgin, “CNC Machine Tool Work Offset Error Compensation Method”,  
[doi:10.1016/j.jmsy.2015.04.001](https://doi.org/10.1016/j.jmsy.2015.04.001)

In summary, the eight papers in this special issue brings to readers some of the state-of-the-art and the latest achievements highlighted at the 43rd North American Manufacturing Research Conference (NAMRC 43) in Charlotte, NC, USA.